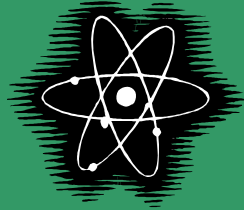


PHOTONICS



Project #1

Electrically-induced luminescence for imaging and spectroscopy

The goal of this project is to design a source of high-voltage pulses that will be used as the excitation source for imaging and spectroscopy of organic tissues and inorganic surfaces. This system should produce about 15 kV pulses with a repetition rate greater than 1 kHz that will be applied to the samples through a transparent electrode. The first prototype was built by the scholar team in May 2007, but several improvements need to be made. Once the design is completed, a series of experiments will be performed to test the effectiveness of the system.

Interested? Contact Dr. Ivan T. Lima (Ivan.Lima@ndsu.edu)

